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## **SUPPORTING INFORMATION**

### **Modification of Heme Peptides by Reverse Proteolysis: Spectroscopy of Microperoxidase-10 with C-Terminal Histidine, Tyrosine, and Methionine Residues**

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#### **Figure Captions for Supporting Information**

**Figure 1:** Laser-desorption mass spectra of (A) H23MP10; (B) M23MP10; (C) Y23MP10. All experimental masses correspond to the values expected for the peptide with His18-aquo coordination.

**Figure 2:** FPLC traces for purification of (A) H23MP10; (B) M23MP10; (C) Y23MP10. Reaction mixtures were applied to a Pharmacia PepRPC 16/10 column and eluted with an increasing gradient of acetonitrile containing buffer (buffer A: 0.1 % trifluoroacetic acid (TFA), buffer B: 60% acetonitrile; 40% water; 0.1% TFA). Flow rate 5 mL/min. Peaks labelled 1 correspond to the desired X23MP10 product; peaks labelled 2 correspond to MP9 starting material. Peak 3 in the H23 chromatogram does not contain heme.

**Figure 3:** Low frequency region Raman spectra of (A) Fe(III) Y23MP10; (B) Fe(II) Y23MP10; (C) Fe(III) H23MP10; (D) Fe(II) H23MP10. Arrows in the Y23 spectra indicate vibrations that are not present or significantly less intense in the corresponding Raman spectra of other microperoxidases.

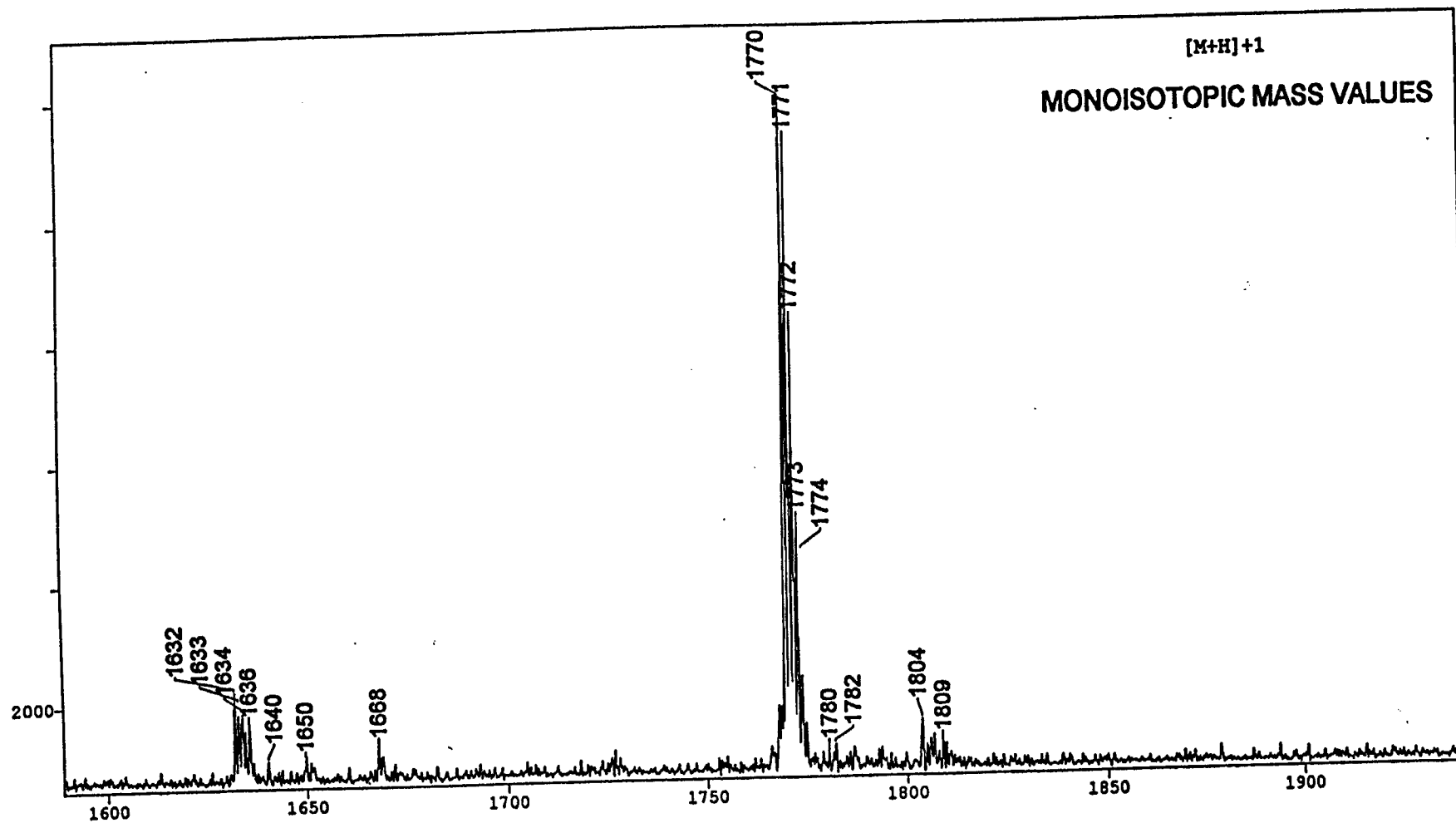


Figure 1A

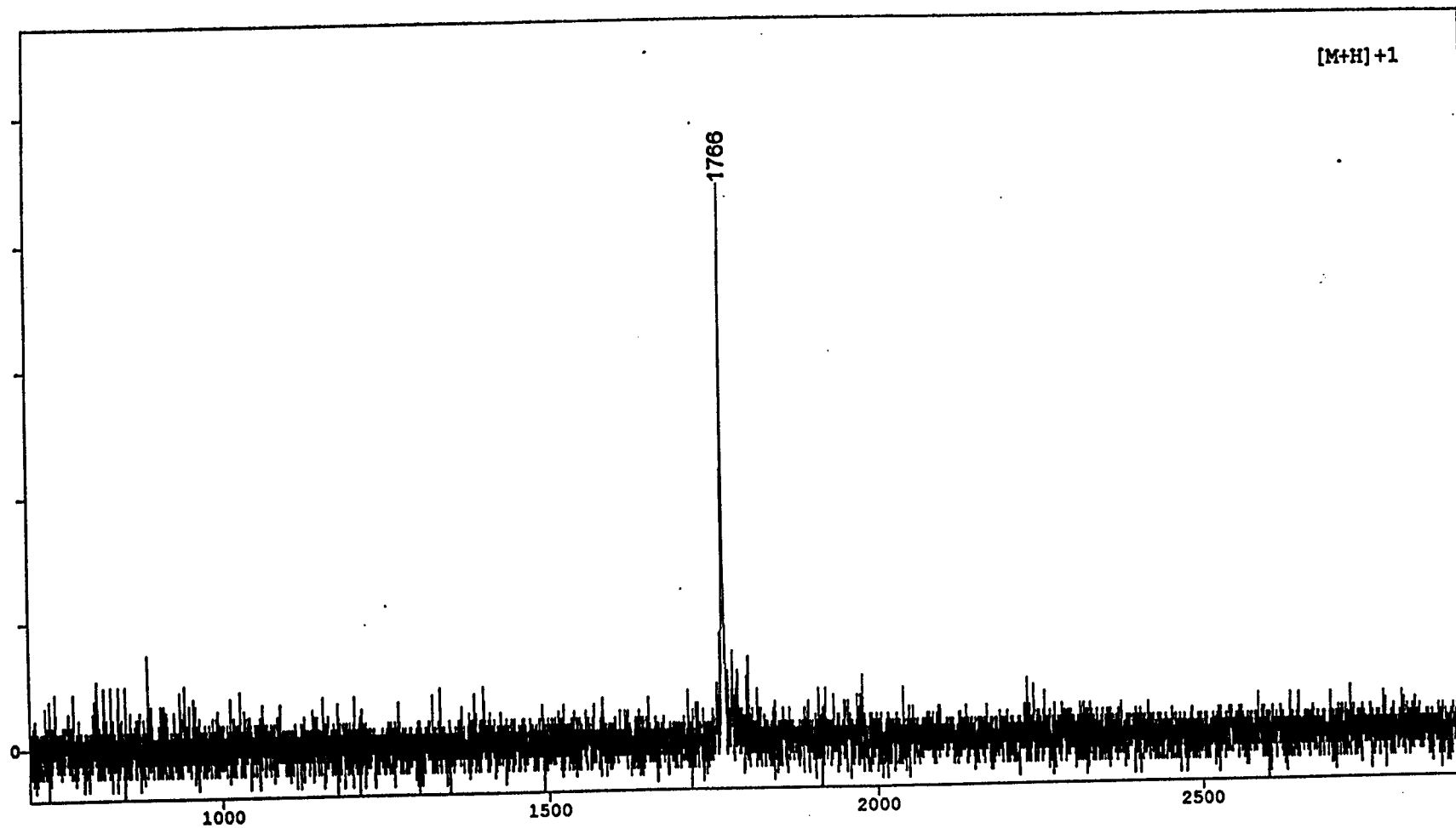


Figure 1B

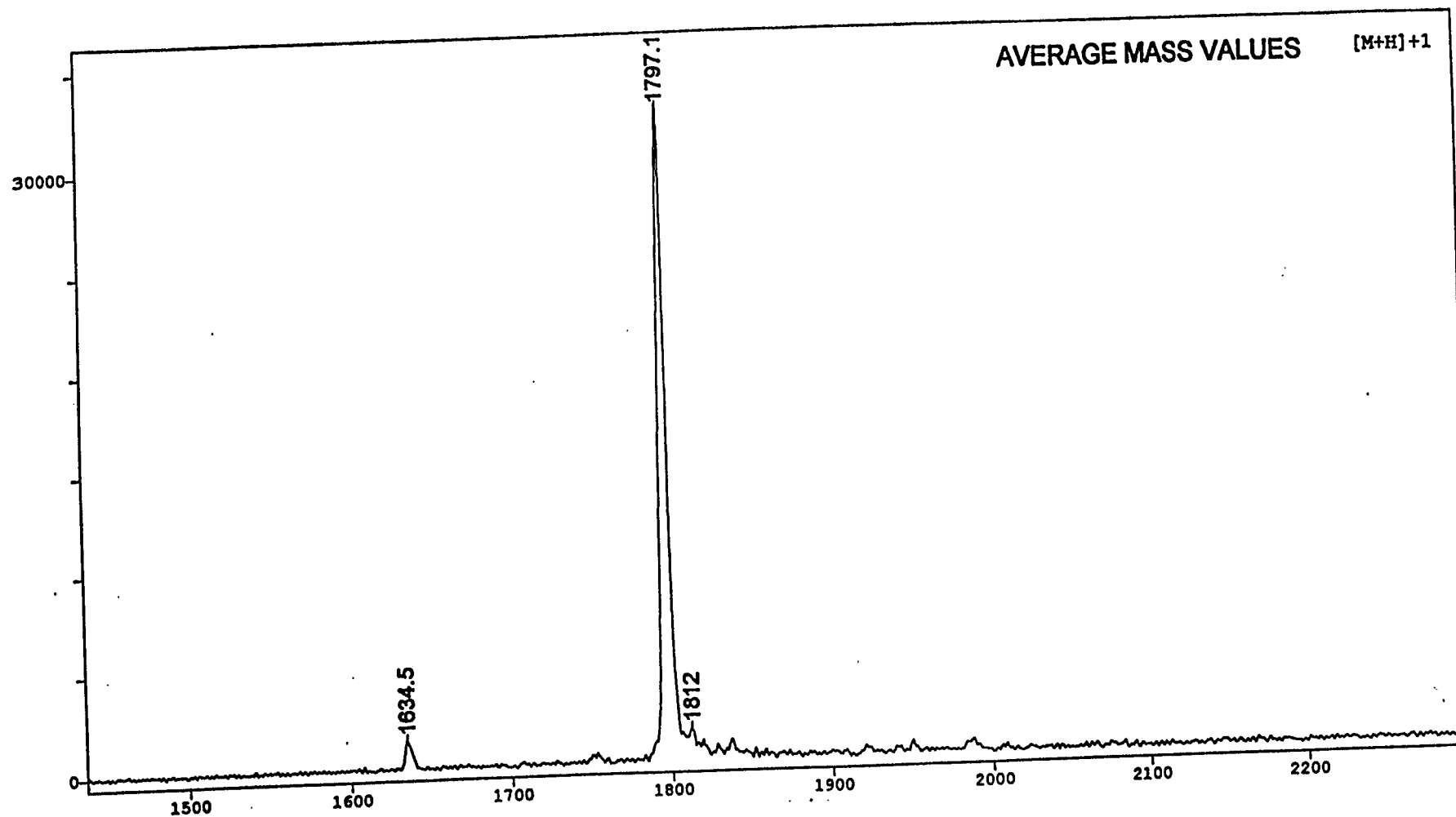


Figure 1C

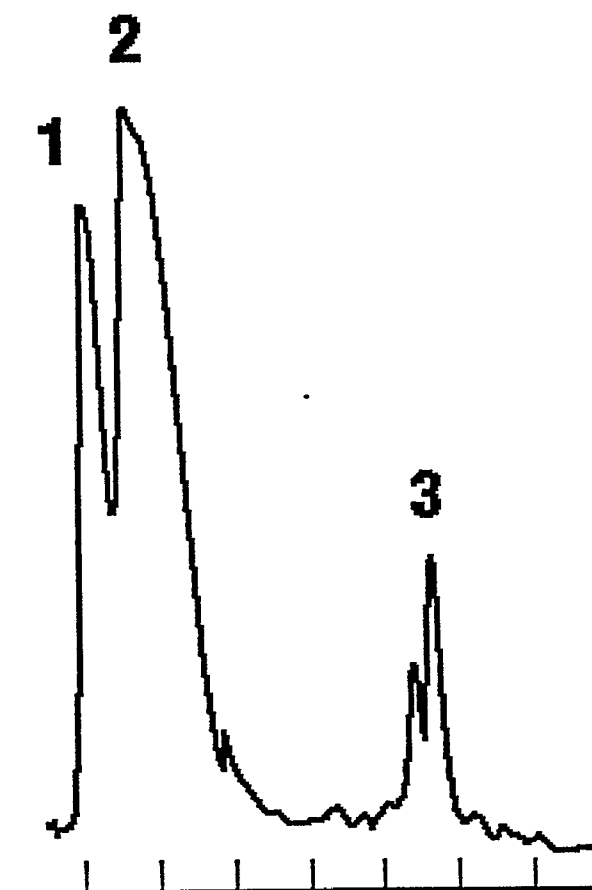


Figure 2A

POOR QUALITY ORIGINAL

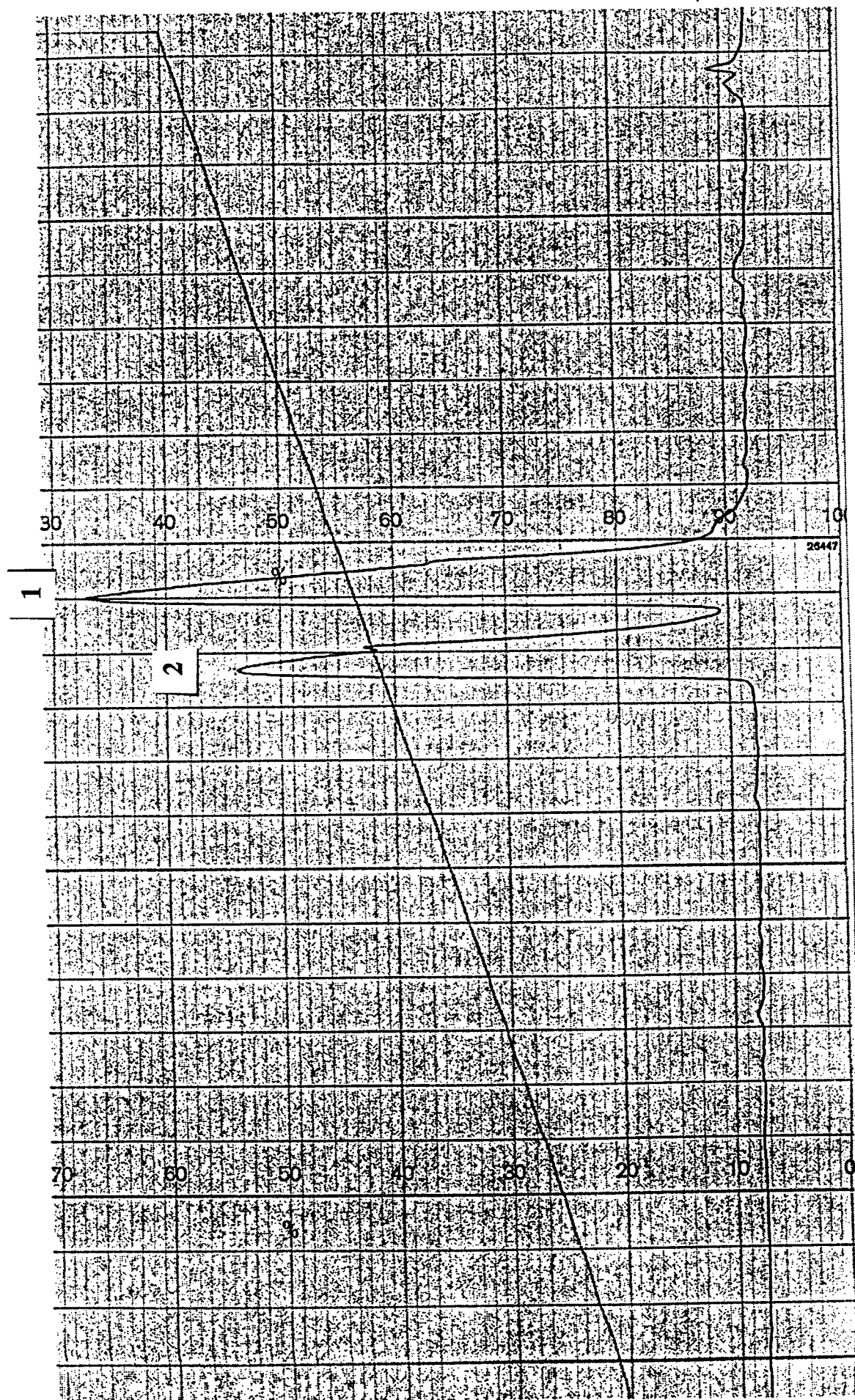


Figure 2B

POOR QUALITY ORIGINAL

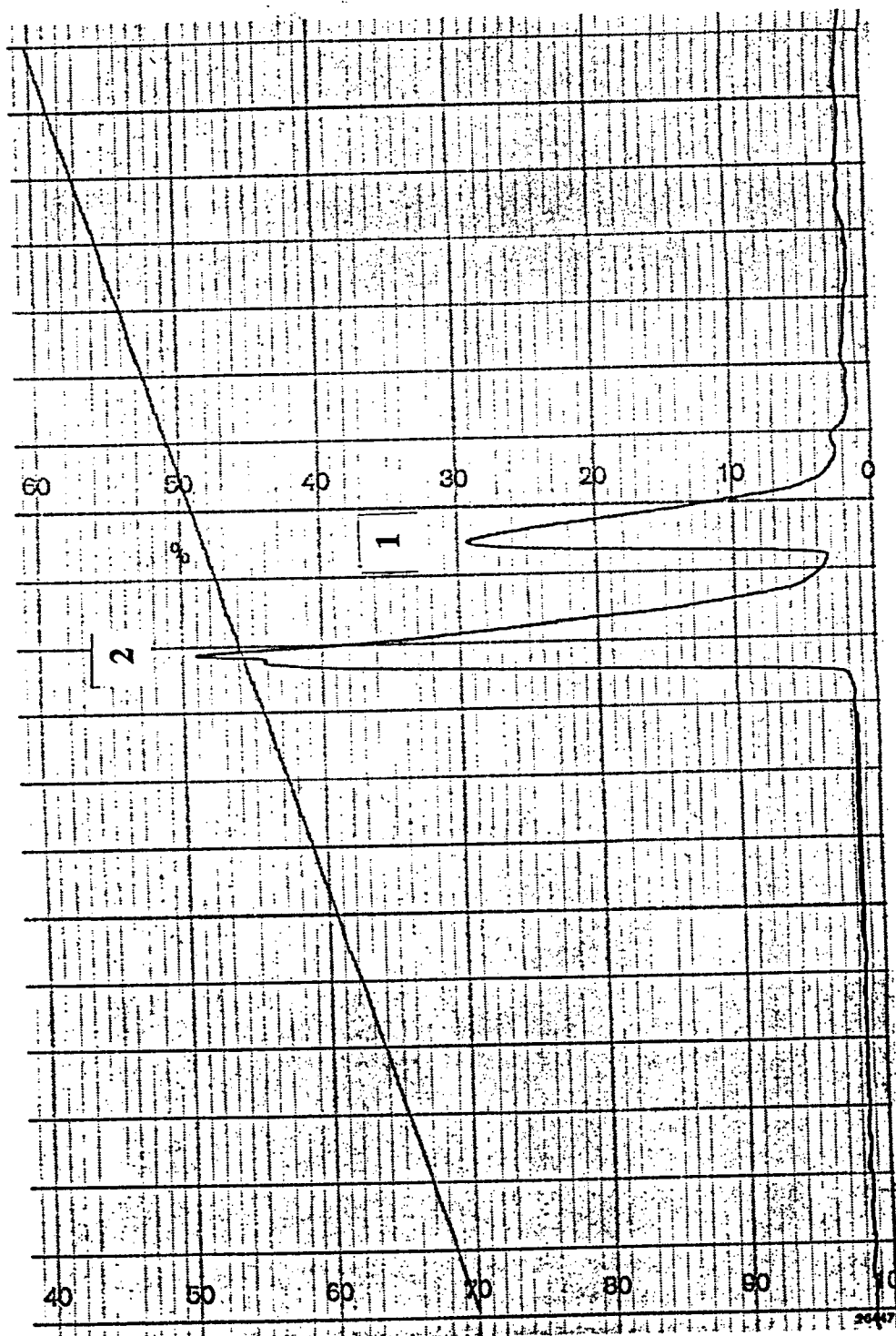


Figure 2C



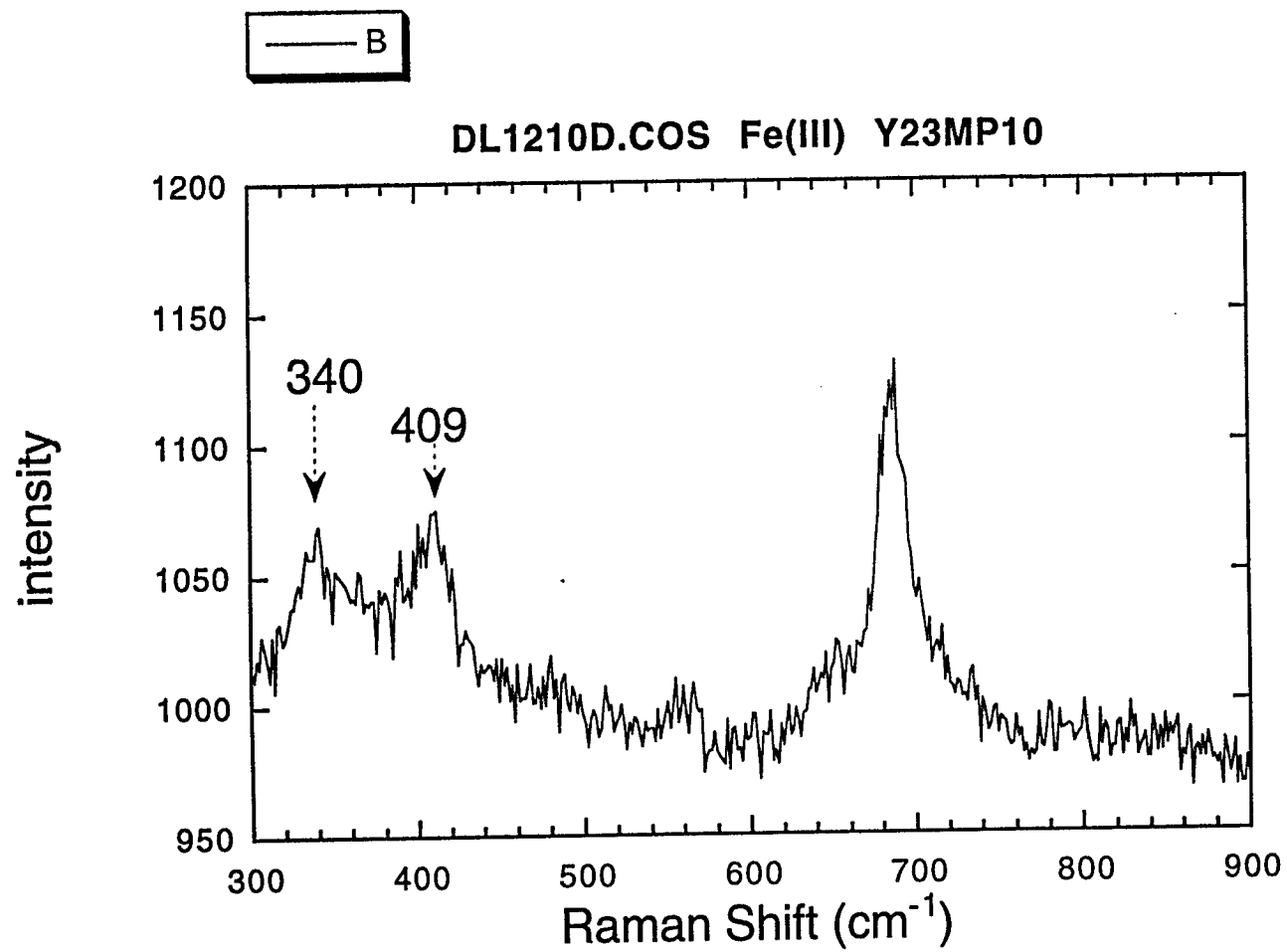


Figure 3A

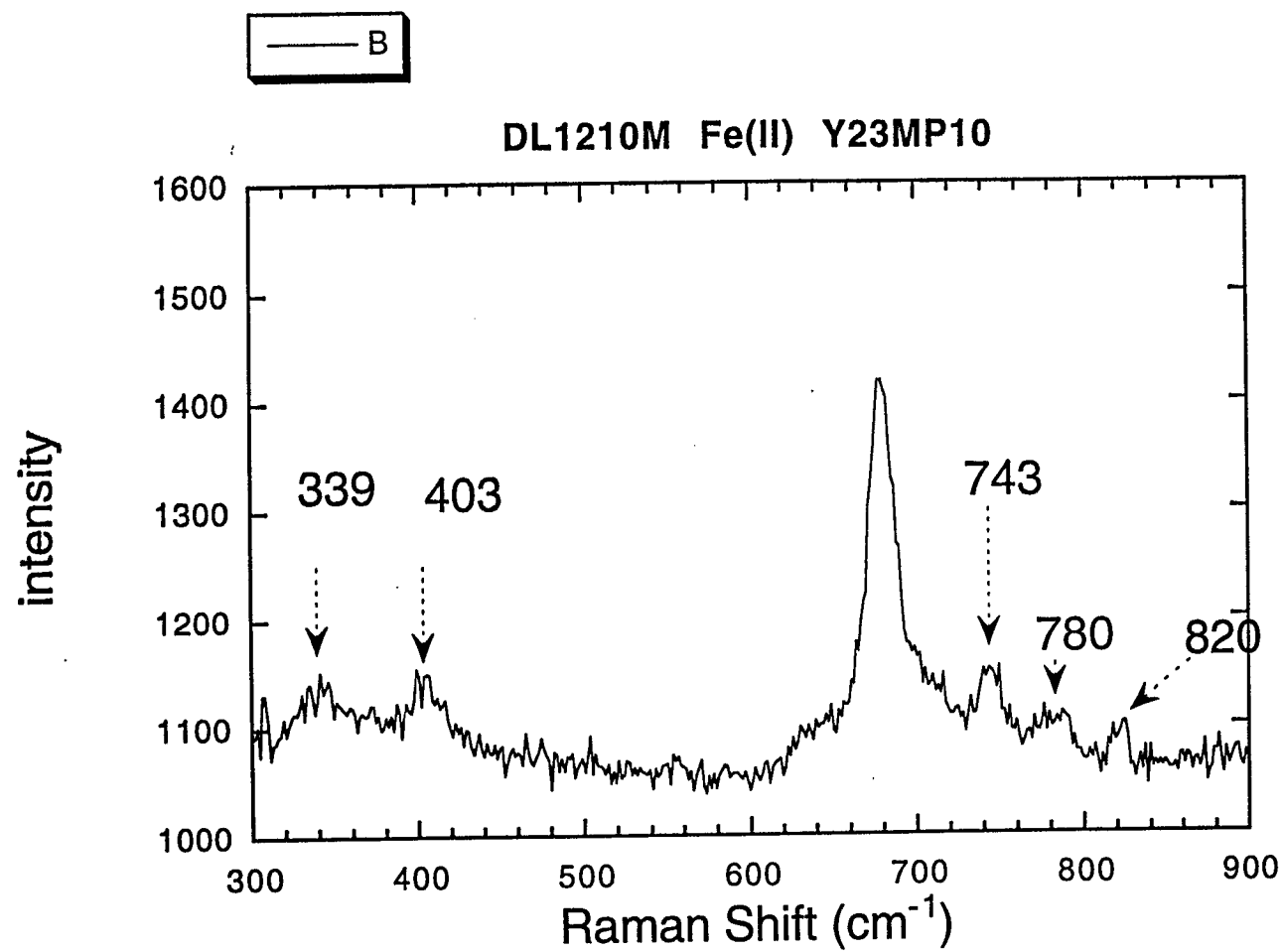


Figure 3B

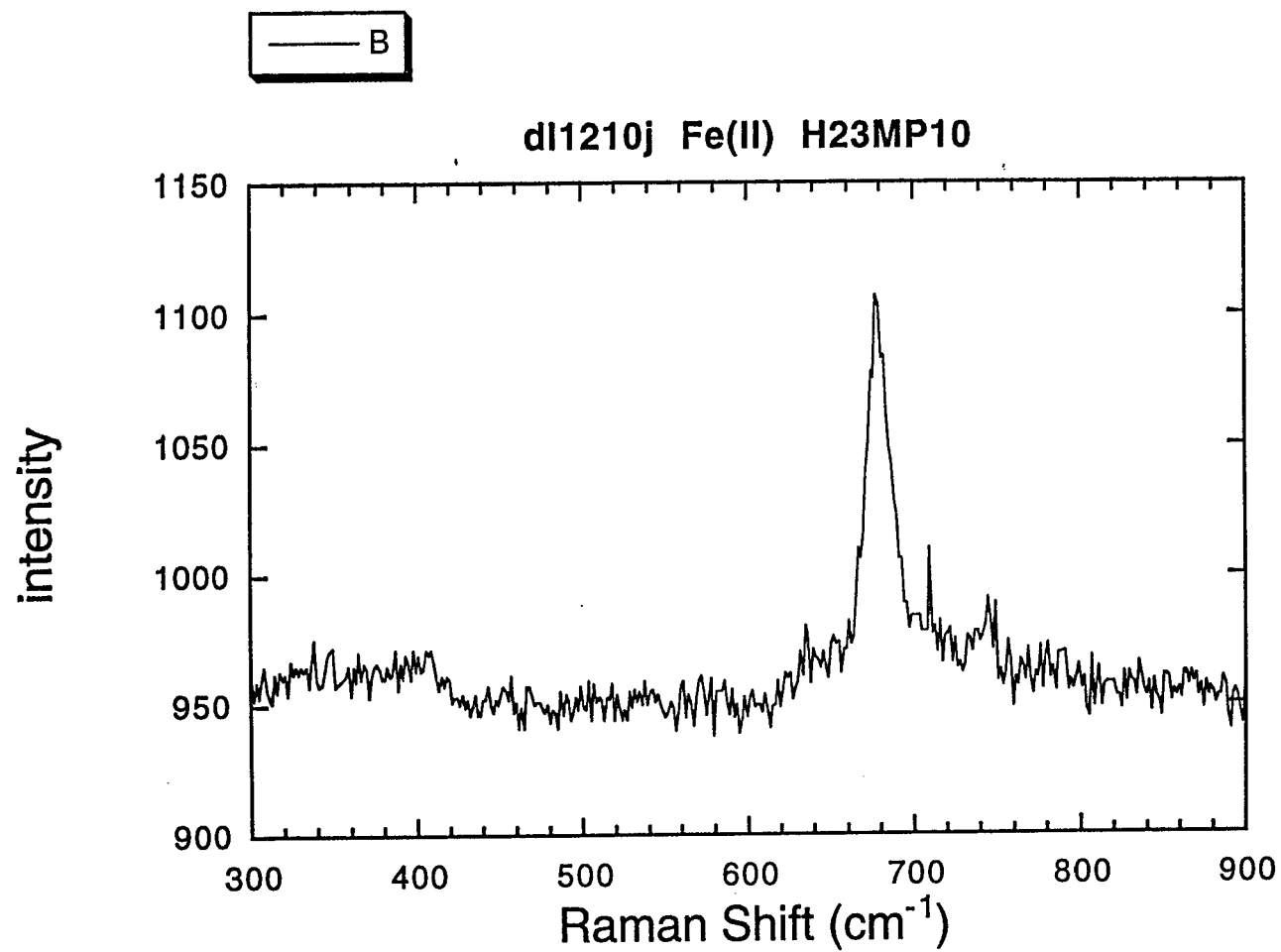


Figure 3D

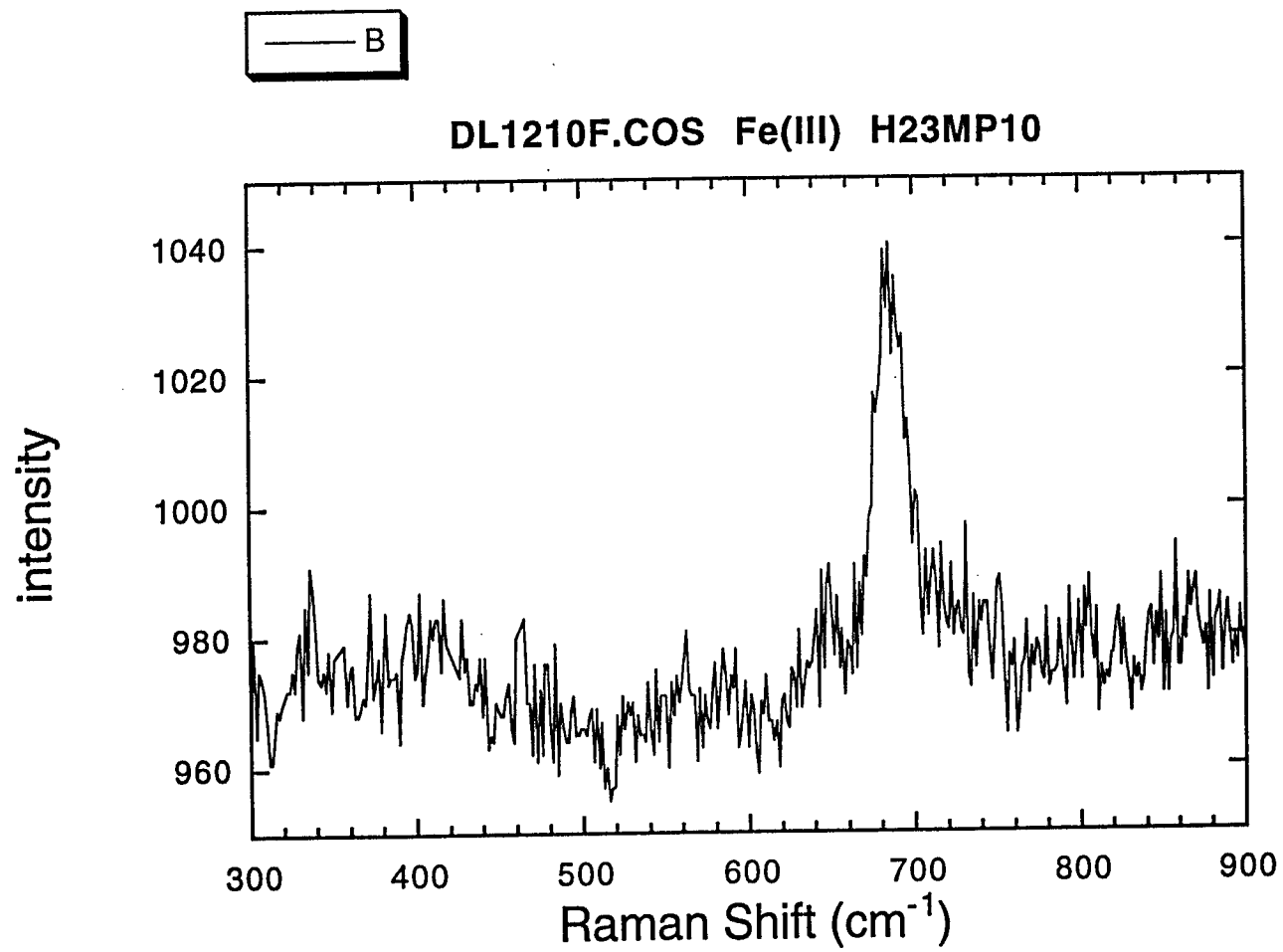


Figure 3C